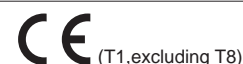


T Series	Application cylinder	CAC4	CKV2	CMA2	CMK2	HCM	JSC3	JSC4	JSG	JSK2	JSM2	LCG	LCR	LCW
		LCX	MRG2	MRL2	RCS2	RCC2	RRC	SCA2	SCG	SCM	SCP*3	SCS2	SRM3	SSD
		SSD2	SSG	STG	STS/STL	STK	UCA2	UCAC2	ULK	Hand	Chuck			



T*H/T*WH



T*V/T*WV



T1H



T1V



T8H/T*YH



T8V/T*YV

Specifications

Item	2-wire proximity						3-wire proximity			
	T1H/T1V	T2H/T2V	T2HR3/T2VR3 (Bending resistant lead wire)	T2JH/T2JV (Off-delay)	T2YH/T2YV (2-color LED)	T2WH/T2WV (2-color LED)	T3H/T3V	T3PH/T3PV (PNP output)	T3YH/T3YV (2-color LED)	T3WH/T3WV(2- color LED)
Applications	For programmable controller, relay, compact solenoid valve	Dedicated for programmable controller					For programmable controller, relay			
Output method		-					NPN output	PNP output	NPN output	NPN output
Power supply voltage		-					10 to 28 VDC			
Load voltage		85 to 265 VAC	10 to 30 VDC			24 VDC ±10%	30 VDC or less			
Load current	5 to 100 mA	5 to 20 mA (*1)					100 mA or less		50 mA or less	
Current consumption	-	-					With 24 VDC 10 mA or less	With 24 VDC 10 mA or less	10 mA or less with 24 VDC	
Internal voltage drop	10% or less of load voltage	4 V or less					0.5 V or less			
Off-delay time	-			200±50 ms	-		-			
Indicator	Red LED(Lit when ON)				Red/greenLED (Lit when ON)	Red/greenLED (Lit when ON)	Red LED (Lit when ON)	Yellow LED (Lit when ON)	Red/green LED (Lit when ON)	
Leakage current	1 mA or less with 100 VAC, 2 mA or less with 200 VAC	1 mA or less					10 µA or less			
Lead wire length *6	1 m (oil resistant vinyl Cabytre cable 2-conductor 0.3mm ²)	1 m (oil resistant vinyl cabytre cable 2-conductor 0.2mm ²)	3 m (elasticity, oil resistance Vinyl cabytre cable 2-conductor 0.2mm ²)	1 m (oil resistant vinyl cab Tire cable 2-conductor 0.3mm ²)	1 m (oil resistant vinyl cabytre cable 2-conductor 0.2mm ²)		1 m (oil resistant vinyl cab Tire cable 3-conductor 0.2mm ²)	1 m (oil resistant vinyl Cabytre cable 3-conductor 0.3mm ²)	1 m (oil resistant vinyl Cabytre cable 3-conductor 0.2mm ²)	
Shock resistance	980m/s ²									
Insulation resistance	100 MΩ and over with 500 VDC megger	20 MΩ and over with 500 VDC megger	100 MΩ and over with 500 VDC megger	20 MΩ and over with 500 VDC megger	20 MΩ and over with 500 VDC megger		20 MΩ and over with 500 VDC megger	100 MΩ and over with 500 VDC megger	20 MΩ and over with 500 VDC megger	
Withstand voltage	No failure after 1 minute of 1,500 VAC application.	No failure after 1 minute of 1,000 VAC application.								
Ambient temperature		-10 to +60°C								
Degree of protection	IEC standards IP67, JIS C0920 (water tight)									
Weight	1 m: 33g 3 m: 87g 5 m: 142g	1 m: 18 g 3 m: 49 g 5 m: 80 g	1 m: 33 g 3 m: 87 g 5 m: 142 g	1 m: 18 g 3 m: 49 g 5 m: 80 g	1 m: 18 g 3 m: 49 g 5 m: 80 g		1 m: 18 g 3 m: 49 g 5 m: 80 g	1 m: 33 g 3 m: 87 g 5 m: 142 g	1 m: 18 g 3 m: 49 g 5 m: 80 g	

Descriptions	2-wire reed						
	T0H/T0V		T5H/T5V		T8H/T8V		
Applications	For programmable controller, relay		For programmable controller, relay, IC circuit (no indicator lamp), serial connection			For programmable controller, relay	
Power supply voltage	-						
Load voltage	DC12/24V	110 VAC	DC5/12/24V	110 VAC	DC12/24V	110 VAC	220 VAC
Load current	5 to 50 mA	7 to 20 mA	50 mA or less	20 mA or less	5 to 50 mA	7 to 20 mA	7 to 10 mA
Current consumption	-						
Internal voltage drop	3 V or less (For DC, at load current 30mA)		0.1V or less (*5)		4 V or less		
Indicator	Red LED (Lit when ON)		No indicator lamp		Red LED (Lit when ON)		
Leakage current	0 mA						
Lead wire length	1 m (oil resistant vinyl cabtyre cable 2-conductor 0.2mm ²)				1 m (oil resistant vinyl cabtyre cable 2-conductor 0.3mm ²)		
Shock resistance	294 m/s ²						
Insulation resistance	20 MΩ and over with 500 VDC megger				100 MΩ and over with 500 VDC megger		
Withstand voltage	No failure after 1 minute of 1,000 VAC application.				No failure after 1 minute of 1,500 VAC application		
Ambient temperature	-10 to +60°C						
Degree of protection	IEC standards IP67, JIS C0920 (water tight)						
Contact protection circuit *6	None				Yes		
Weight	1 m: 18 g 3 m: 49 g 5 m: 80 g				1 m: 33g 3 m: 87g 5 m: 142g		

*1: The above max. load current is 20 mA at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

*2: T2HR3, T2VR3, T3PH and T3PV switches are available as made to order when installed onto compatible cylinders.

*3: T2JH and T2JV switches are available as made to order when installed onto SRL3 (ø32 to ø100), MRL2, LCR, UCAC2 or Hand-chuck.

*4: Switch types are limited depending on cylinder. Refer to each cylinder page for the details.

*5: Internal resistance 0.5 Ω or less. *6: Refer to Intro Page 80 for contact protective measures.

T Series	AC magnetic field	Application cylinder	CAC4	JSC3	JSC4	JSG	RCC2	RCS2	SCA2	SCG
			SCM	SCS2	SRG3	SRL3	SRM3	SRT3	SSD	SSD2
			SSG	STG	STS/STL	UCAC2	USC	USSD		



T2YD



Specifications

Item	2-wire proximity		
	T2YD	T2YDT	T2YDU(Made to order)
Applications	Dedicated for programmable controller		
Indicator	Red/green LED (Lit when ON)		
Load voltage	24 VDC $\pm 10\%$		
Load current	5 to 20mA		
Internal voltage drop	6 V or less		
Leakage current	1.0 mA or less		
Output delay time *1 (ON delay, OFF delay)	60 ms or less		
Lead wire length	1 m (oil resistant vinyl cabtyre cable $\phi 6$, 0.5 mm ² × 2-conductor) *2	1 m (flame-resistant vinyl cabtyre cable $\phi 6$, 0.5 mm ² × 2-conductor) *2	0.3 m (flame-resistant vinyl cabtyre cable with M12 cable connector, AWG20, 2-conductor)
Insulation resistance	100 M Ω and over with 500 VDC megger		
Withstand voltage	No failure after 1 minute of 1,000 VAC application.		
Shock resistance	980 m/s ²		
Ambient temperature	-10 to +60°C		
Degree of protection	JIS C0920 (water-tight), IEC standards IP67		
Weight	1 m: 61 g 3 m: 166 g 5 m: 272 g		35

*1: Indicates the time from magnetic sensor detection of the piston magnet until switch output.

*2: 3 m and 5 m lead wires are available as options.

3: The AC magnetic field proof switch (T2YD) is for AC welding machines, so the effect of strong magnetic field proof performance cannot be obtained with DC welding machines.

T Series	Cutting oil	Application cylinder	CMK2-G2/3	HRL-G2/3	SCA2-G2/3	SCG-G2/3
			SSD-G2/3	SSD2-G2/3	STG-G2/3	STS/STL-G2/3



T*YLH



Specifications

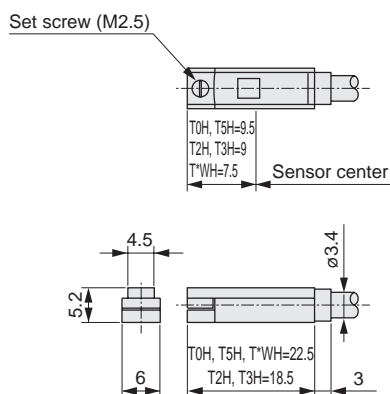
Item	2-wire proximity	3-wire proximity
	T2YLH, T2YLV	T3YLH, T3YLV
Applications	Dedicated for programmable controller	Programmable controller, relay
Output method	-	NPN output
Power supply voltage	-	10 to 28 VDC
Load voltage	10 to 30 VDC	30 VDC or less
Load current	5 to 20mA	50 mA or less
Current consumption	-	10 mA or less at 24 VDC (when ON)
Internal voltage drop	4 V or less	0.5 V or less
Leakage current	1 mA or less	10 μ A or less
Indicator	Red/green LED (Lit when ON)	
Lead wire	Oil resistant vinyl cabtyre cable 0.3mm ² , 2 conductor 1 m	Oil resistant vinyl cabtyre cable 0.2mm ² , 3 conductor 1 m
Insulation resistance	100 M Ω and over with 500 VDC megger	
Withstand voltage	No failure after 1 minute of 1,000 VAC application.	
Shock resistance	980m/s ²	
Hysteresis	1.5 mm or less	
Ambient temperature	-10 to +60°C	
Degree of protection	IEC Standards IP67, JIS C0920 (water-tight), oil resistance (substrate coating)	
Weight	1 m: 33g 3 m: 87g 5 m: 142g	

Cylinder switch

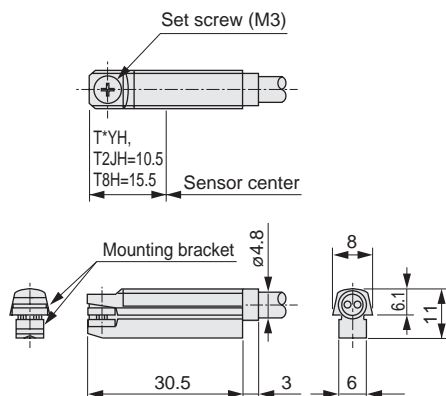
Ending

Dimensions

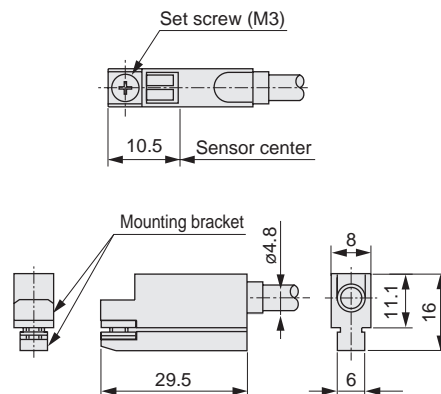
● T*H/T*WH Series (straight lead wire)



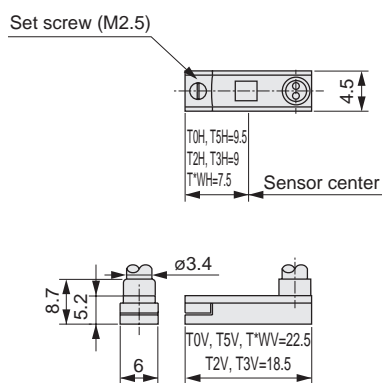
● T*YH/T2JH/T8H Series (straight lead wire)



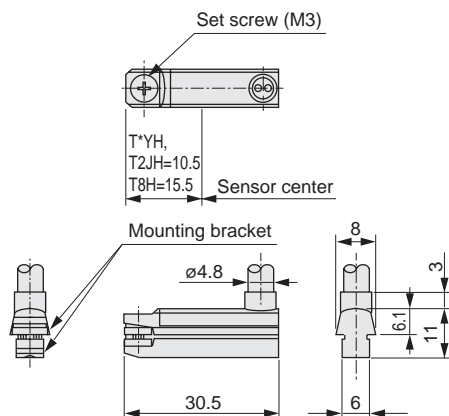
● T1H Series (straight lead wire)



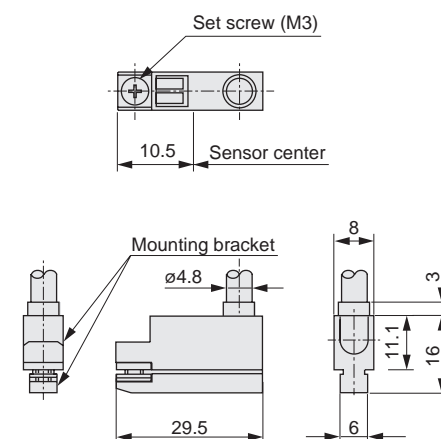
● T*V/T*WV Series (L-shaped lead wire)



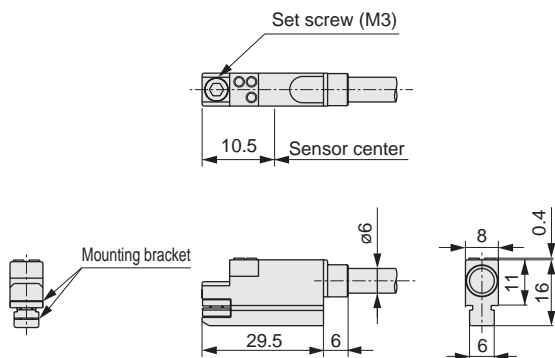
● T*YV/T2JV/T8V Series (L-shaped lead wire)



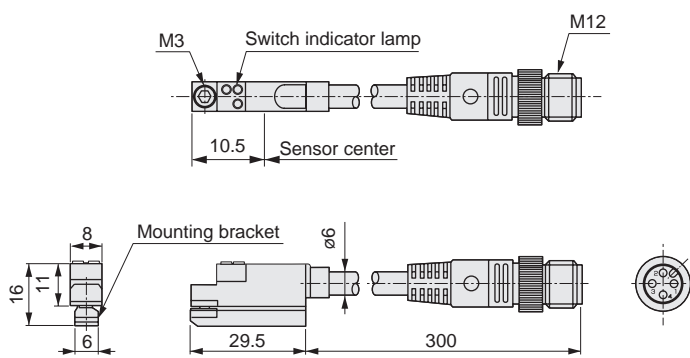
● T1V Series (L-shaped lead wire)



● T2YD (switch for AC magnetic field)

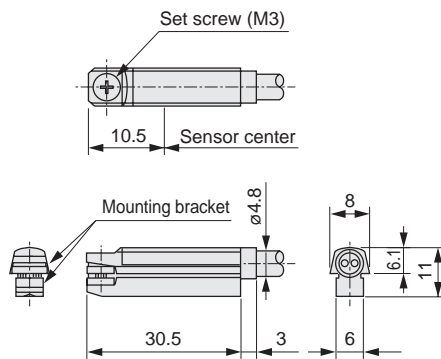


● T2YDU (switch for AC magnetic field with M12 cable connector)

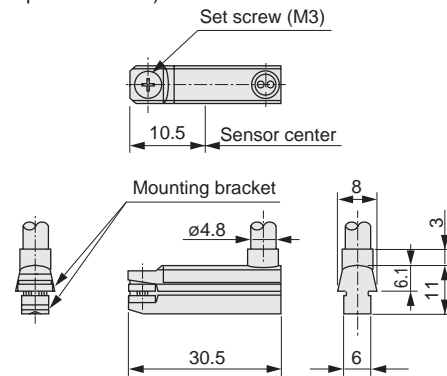


Dimensions

● T*YLH Series (straight lead wire)



● T*YLV Series (L-shaped lead wire)



Switch internal circuit diagram

● T1H/T1V	● T2H/T2V/T2YH/T2YV/T2WH/T2WV/T2JH/T2JV/T2YLH/T2YLV	● T3H/T3V/T3YH/T3YV/T3WH/T3WV/T3YLH/T3YLV	● T3PH/T3PV
● T0H/T0V	● T5H/T5V	● T8H/T8V	● T2YD/T2YDT/T2YDU
			<p>This switch is not polarized. Values in () are the pin layout for T2YDU. However, 1-pin and 2-pin are NC</p>